



Plus-BOX

Operating Manual

D437065XA

Vers. 1.1



A Member of the Kaba Group

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GENERAL

The device is designed to European CE Directives.

The materials employed in construction are not hazardous and ensure that the machine complies with current standards. Its design features make the device safe in all its components.

USER'S MANUAL

The instructions booklet provided together with the device is essential for proper use and any necessary maintenance operations.

For this reason it must be kept to hand and protected from damage in a safe place which is easily reached when necessary.

RESIDUAL RISKS

There are no residual risks on the device.

SAFETY PRECAUTIONS FOR THE OPERATOR

The operations for which the device is designed are easy to carry out and do not involve any risks for the operator.

The device is safe in all its components.

SAFETY STANDARDS

To work in complete safety do not use the device until you have read and understood all the concepts, instructions and regulations described in this user's manual.

- Check electric wiring periodically; if the wires are worn repair or replace them immediately.
- Always work with dry hands not contaminated with grease or oil.
- Disconnect the device when it is not operating or to carry out maintenance operations.
- Do not pull on the power lead and make sure it does not come into contact with oil, sharp objects or heat.
- Do not use the device in hazardous places (damp or wet).
- Make sure the workplace is well illuminated.
- Keep the workplace clean and remove all tools before activating the device.
- Any visitors, especially children, must keep a safe distance and not come into contact with the device or electric wiring.
- Do not use the device for purposes different from those described in the instructions booklet.
- Do not use the device if the ON/OFF switch is not working.

POWER SUPPLY

The device is powered by electricity through the 15 Vdc universal.

TURNING ON

The device is turned on by means of the master switch (D).

DEVICE ID

The device carries an ID plate that shows its serial number.

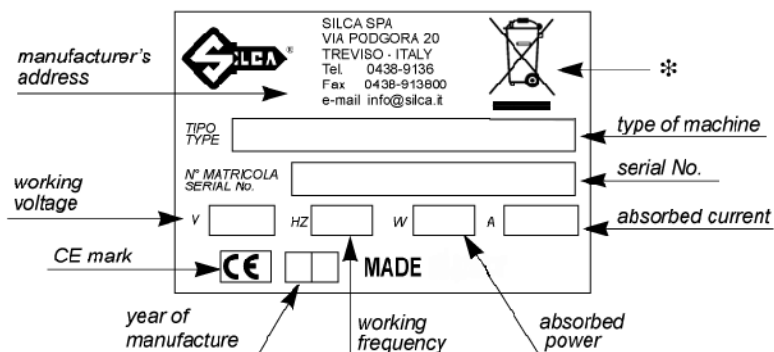


Figure 1

1 DEVICE DESCRIPTION

The device is used to make calculations for copying second generation Philips* Crypto transponders with: Ilco **RW4**

Ilco EZ®-Clone

To see the list of vehicle makes and models for which keys can be reproduced, refer to the key blanks published in Ilco® Catalogs and updates.

MAIN CHARACTERISTICS

Software updates

- The device can be updated via RS232 with a personal computer.

Power supply

- directly from the mains through a power supply and wire.

TECHNICAL DATA

POWER

- Power supply: 100/240 Vac - 50/60 Hz/15 Vdc - 3 A
- device power: 15Vdc - 10W

DIMENSIONS

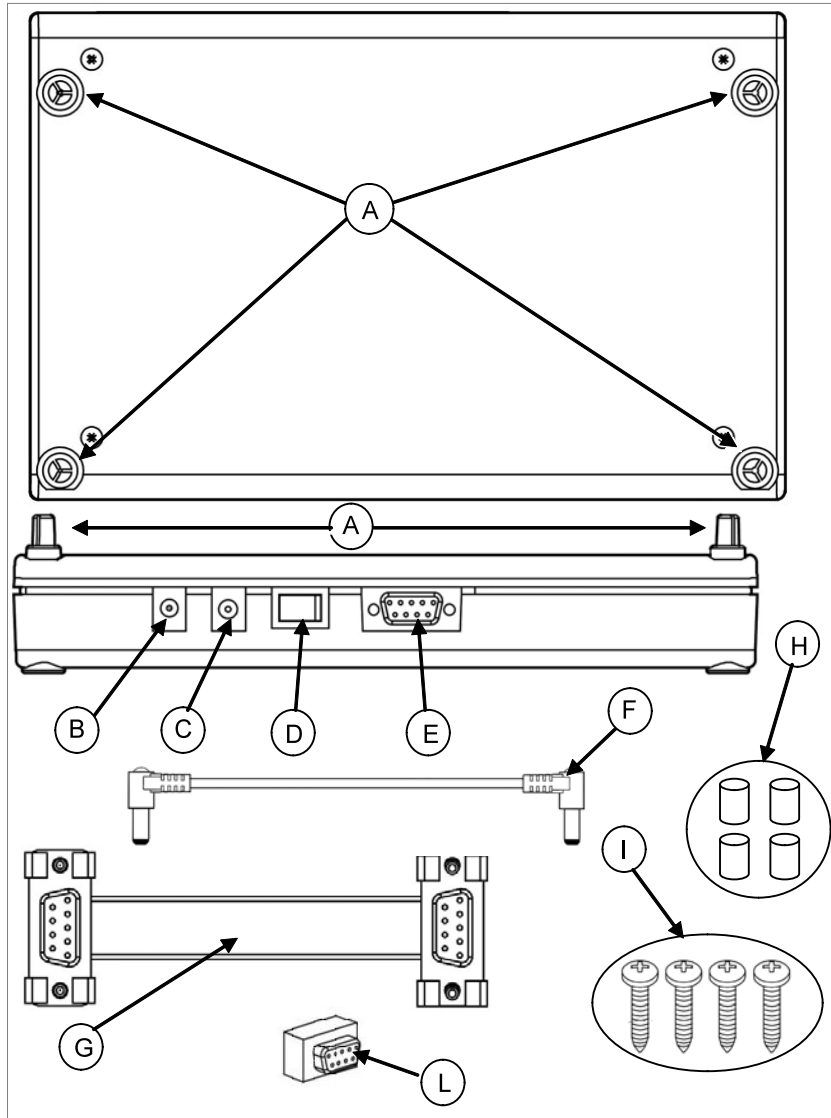
- Length 6.25" (15.88 cm)
- Width 9.625" (24.45 cm)
- Height 1.5" (3.81 cm)

WEIGHT

- 1 lb. (0.5 kg)

2 WORKING PARTS

The structure of the device is extremely simple:



- pins for attaching the RW4/Ilco EZ®-Clone devices - (A)
- 15 VDC power input connector - (B)
- 15 VDC power output connector - (C)
- switch - (D)
- RS232 connector (9 poles) - (E)
- power lead from Plus-Box to RW4/Ilco EZ®-Clone - (F)
- serial cable for connecting to RW4 or Ilco EZ®-Clone - (G)
- pin gaskets - (H)
- fixing screws - (I)
- serial adapter 9M/9F - (L)

3 WARNING LIGHTS

FRONT PANEL

There are two LEDs on the front panel:

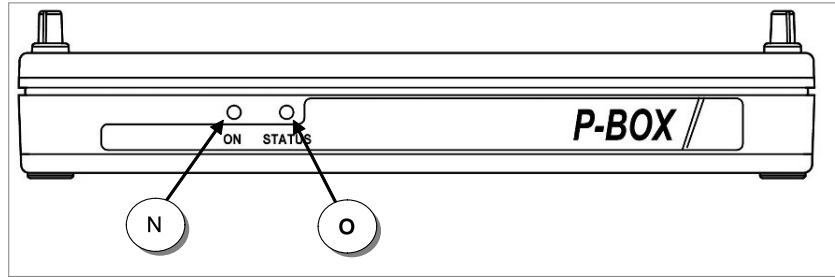


Figure 2

- Green LED (N); illuminates when the device is live
- Red LED (O); flashes during calculating operations

N.B.: If the “Status” LED (O) is on and not flashing there is an anomaly on the Plus-Box device. Solving the problem: turn off the Plus-Box and disconnect for a few seconds, then turn on the device again.
If this does not solve the problem, contact Kaba Ilco Tech Support.

4 CONNECTING THE DEVICE

Connecting to RW4 and Ilco EZ®-Clone machine

Mechanical connection

The Plus-Box module is designed to be integrated with RW4 and Ilco EZ®-Clone devices. Below are the instructions to integrate the Plus-Box module to the device:

- Make sure the machine is off.
- Disconnect the power lead from the machine.
- Disconnect the RS-232 and/or USB communication cable from the machine.
- Remove the four rubber feet from the bottom of the machine. Figure 3
- Place the Plus-Box in position on a bench, with the pins upwards.
- Fit the gaskets (H) onto the pins.
- Place the machine on top of the Plus-Box module, taking care that the four pins enter the holes on the bottom of the machine. (Attention: switches on the same side).
- Fit and tighten the fixing screws on the bottom (I) of the Plus-Box module. Figure 4
- Fit the four rubber feet into the holes on the bottom of the Plus-Box module.

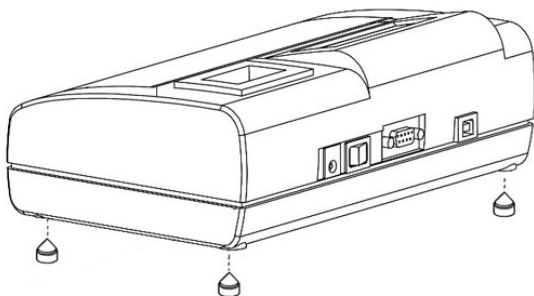


Figure 3

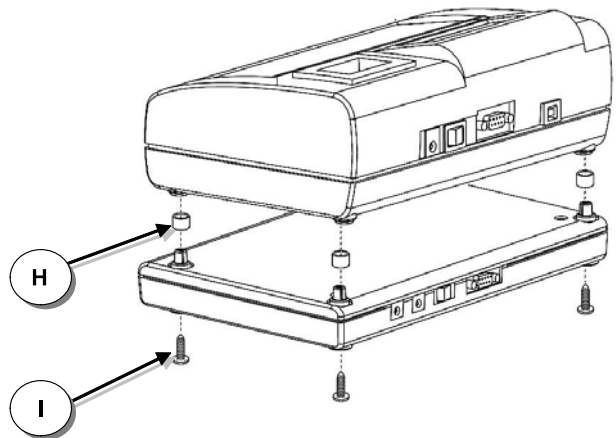


Figure 4

Electrical Connection

When the Plus-Box device is connected mechanically to the RW4/Ilco EZ®-Clone electronic machine, make the electrical connection:

Case 1: connecting Plus-Box and machine

- Connect the power cable (F) on the Plus-Box module to the connectors (C).
- Connect the RS-232 serial communication cable (G) on the Plus-Box module to the connectors (E).

- Insert the machine power lead (S) into the connector (B).
- Connection to a PC (optional) must be made with the USB connector (USB).

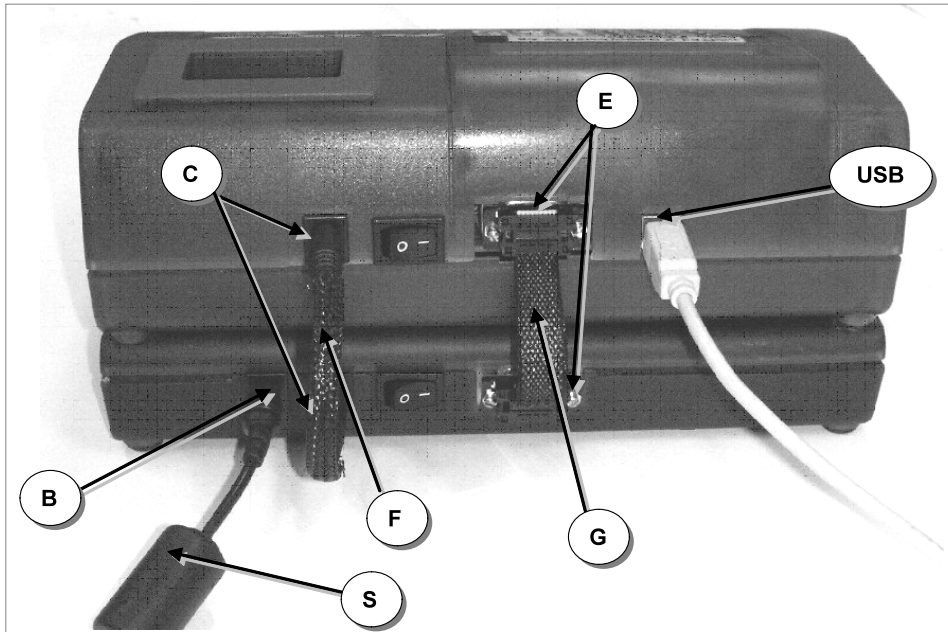


Figure 5

Case 2: connection Plus-Box + machine + COM-CODE* module

- Connect the cable (F) on the Plus-Box module to the connectors (C).
- Connect the power lead on the COM-CODE module to the connectors (B).
- Connect the communication cable in the COM-CODE kit for Plus-Box (N)to the connectors (E). **(OPTIONAL)**
- Connect the communication cable on the COME-CODE module (P) to the connectors (D).
- Insert the pin on the power lead (provided with the machine) into connector (M).
- Connection for a PC (optional) must be made with the USB connector (USB).

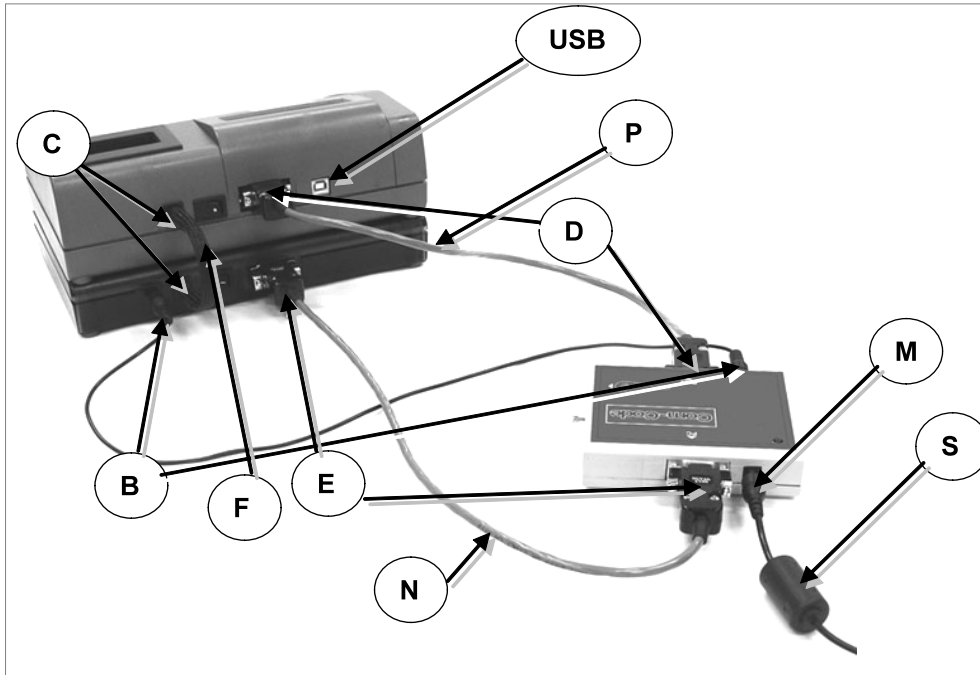


Figure 6

* Used for Holden Commodore only

5 PLUS-BOX MODULE SOFTWARE UPDATE

To update Plus-Box module software, proceed as follows:

- remove the serial cable (G) connecting the machine to the Plus-Box module.
- connect the serial adapter (L) to the serial receptacle on the device.
- from the PC connect the RS232 serial cable to the serial adapter (L) (or a USB converter -> serial)
- insert the machine power lead into connector (B)
- use switch (D) to turn on the device
- update the device with a CD-ROM

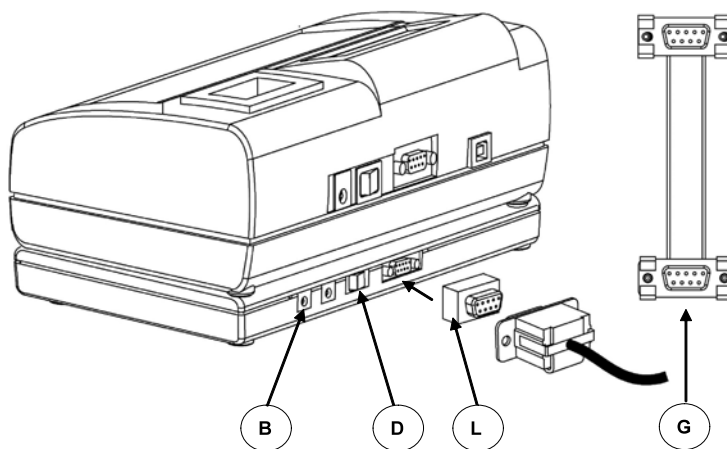


Figure 7

6 SOFTWARE UPDATE FOR COM-CODE MODULE COMBINED WITH PLUS-BOX MODULE

If the machine is simultaneously connected to both the Plus-Box and COM-CODE modules, disconnect the COM-CODE module from the Plus-Box and connect directly to the PC (see user's manual for the machine).

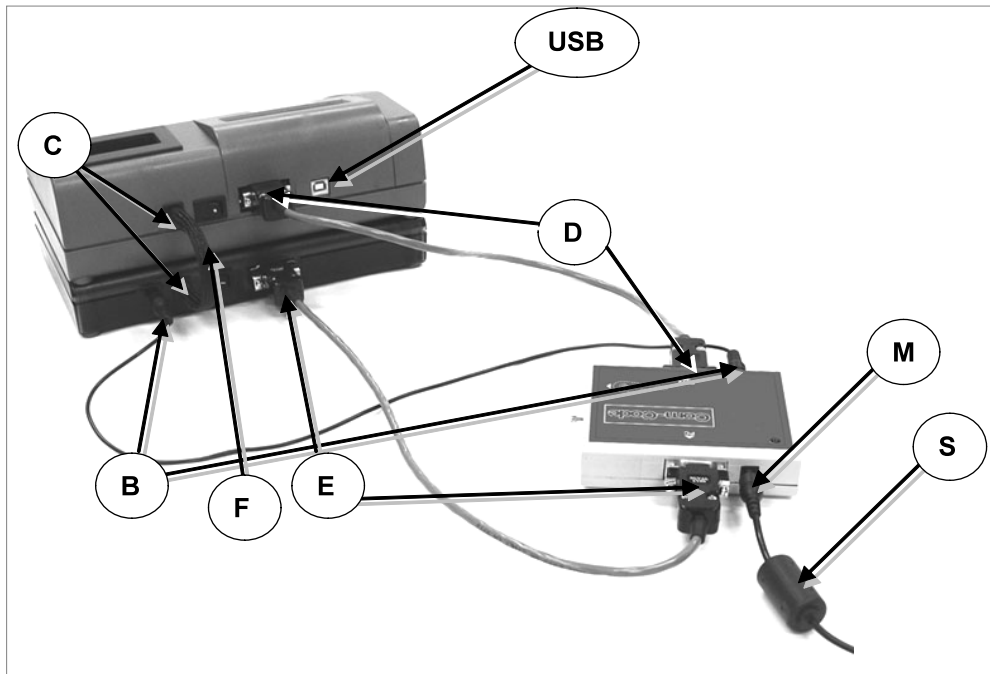


Figure 8



Figure 9

7 WASTE DISPOSAL

CEE regulations lay down special provisions for disposing of waste [□].

Machine waste

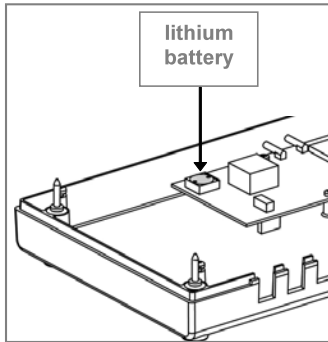
The machine does not produce waste during use.

Machine

The materials used on the machine can be re-used. Recycling is an ecologically sound practice.

Packing

The packing in which the machine is transported is cardboard and can therefore be recycled as packing if whole; as waste it is considered solid urban waste and must therefore not be thrown away but placed in the special cardboard collection bins.



ATTENTION: the machine contains a lithium battery which, when replaced, must be disposed of in the special containers for used batteries.



INFORMATION FOR USERS

Under the terms of art. 10 of Directive 2002/96/CE of 27/01/2003 regarding waste electrical and electronic equipment (WEEE),

- The symbol shown above is also attached to equipment and indicates that said equipment has been placed on the market and must be taken apart when the user decides to get rid of it (including all components, sub-assemblies and consumables that form an integral part of the product).
- For information about the collection system for such equipment, please contact SILCA S.p.A. or anyone else registered in the various National Registers for other European Union countries. Waste generated by householders (or of similar origin) can be handed to the urban waste separate collection system.
- When purchasing new equipment of equivalent type the old machine can be handed over to the dealer. The dealer will then contact the body responsible for collecting the equipment.
- Proper separate collection of the decommissioned equipment and later operations of treatment, recovery and environmentally friendly disposal makes it possible to avoid potential negative effects on the environment and human health, and facilitates the recycling and recovery of components.
- Unauthorized disposal of the product by the user causes the application of the fines laid down in Directives 91/156/CE and 91/689/CE received by national governments.

[□] Waste is defined as any substance or object deriving from human activity or natural cycles disposed of or designed to be disposed of.